

IN THE CLAIMS

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1. (Canceled)

2. (Currently Amended) A wireless positioning method for estimating a position of a terminal by using reception timings of signals transmitted from at least first and second base stations in a cellular communication system, comprising:

B1 a first step of measuring a reception timing of a received signal from the first base station having a power higher than that of a received signal from a second base station;

a second step of canceling the received signal from the first base station from stored received signals; and

a third step of measuring a reception timing of the received signal from the second base station extracted from the stored received signals after the second step, wherein the second step comprises:

a fourth step of storing the received signals from the first and second base stations into a storing circuit in the terminal;

a fifth step of forming a replica of the received signal of the first base station from the stored signals; and

a sixth step of subtracting the replica from the stored signals and overwriting the signals stored in the storing circuit with a result of the subtraction step.

3. (Previously Amended) A wireless positioning method according to claim 2, further comprising:

31 a seventh step of forming the replica by processing a component of the received signal from the first base station in a procedure of despreading, demodulation and respreading by using the code division multiple access (CDMA) system.

4. (Previously Amended) A wireless positioning method according to claim 3, wherein the seventh step includes an eighth step of amplifying a received signal after the despreading, demodulation and respreading.

5. (Previously Amended) A wireless positioning method according to claim 4, wherein the eighth step includes a ninth step of correcting at least one of amplitude fluctuation and phase rotation by a signal propagation path from the first base station.

6. - 8. (Canceled)

9. (Previously Amended) A wireless positioning apparatus comprising:

a signal processor for canceling a received signal from a first base station whose reception power is higher than that of a received signal from a second base station in a cellular communication system;

a CPU for processing an output signal of the signal processor;

BI a storing circuit for storing the received signals from the first and second base stations, and

a timing measurement circuit for measuring reception timings of the signals received from the first and second base stations based on signals stored in the storing circuit,

wherein the signal processor has:

a replica signal generating circuit for generating a replica of the received signal of the first base station from the signals stored in the storing circuit; and

a subtraction circuit for subtracting the replica from the stored signals, and

wherein the stored signals are overwritten with a result of the subtraction and the timing measurement circuit measures the reception timing of the signal received from the second base station based on the overwritten signals in storing circuit.

10. (Previously Amended) A wireless positioning apparatus according to claim 9,

wherein the replica signal generating circuit has:

a despreading circuit for despreading a component of a received signal from the first base station by using a code division multiple access system (CDMA);

B1 a demodulating circuit for demodulating an output signal of the despreading circuit; and

a resspreading circuit for resspreading an output signal of the demodulating circuit.

11. (Original) A wireless positioning apparatus according to claim 10, further comprising an amplifying circuit for amplifying an output signal of the resspreading circuit.

12. (Original) A wireless positioning apparatus according to claim 11, further comprising a correcting circuit for correcting at least one of amplitude fluctuation and phase rotation by a signal propagation path from the first base station.

13. - 14. (Canceled)

15. (Previously Amended) A base station transmission timing measuring apparatus comprising:

a storing circuit for storing received signals from a first and a second base station;

B1 a timing measuring circuit for measuring signal transmission timings of the first and second base stations from timings of signals received from the first and second base stations; and

an interference canceling circuit for canceling the received signal from the first base station whose reception power is higher than that of the received signal from the second base station,

wherein the signals stored in the storing circuit are replaced by signals which are a result of canceling and the timing measuring circuit measures the signal transmission timing of the second base station based on the replaced stored signals.

16-17. (Canceled)

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